

Patent Abstracts of Japan

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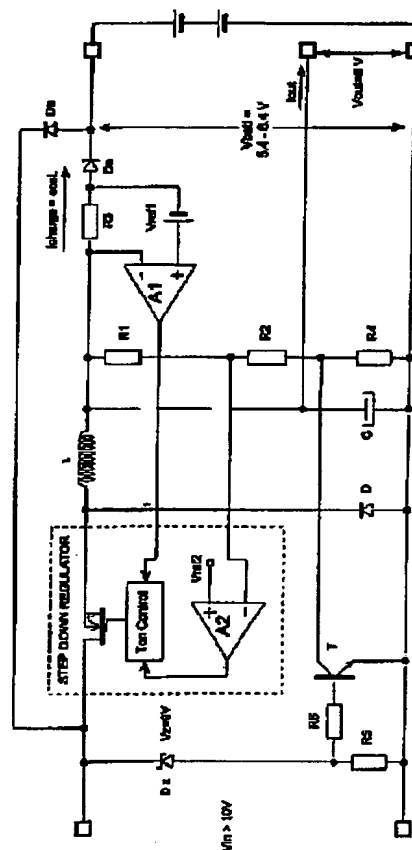
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TITLE : MULTIFUNCTIONAL BATTERY
CHARGER SELF-ALIGNED AS SUPPLY
VOLTAGE REGULATOR FOR DEVICE
RECEIVING POWER FROM THE
BATTERY



ABSTRACT : PROBLEM TO BE SOLVED: To regulate the supply voltage to a load like a portable equipment such as a mobile phone which is supplied with power by a rechargeable battery.

SOLUTION: This charger has a second current mode controlling loop which includes a current sensing resistor R₃ and a first error amplifier A₁ and a second voltage mode controlling loop which includes an output voltage sensing divider R₁-R₂ and a second error amplifier A₂. By biasing two diodes D_a and D_b properly and thereby cutting off the flow of current into the current sensing resistor R₃, the operation of the current mode loop including the resistor is restricted.

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